

## Massachusetts Economic Indicators

IHS Economics - Fall 2015 Forecast

Prepared by Michael Lynch, 781-301-9129

	NAME	2004Q1	2004Q2	2004Q3	2004Q4	2005Q1	2005Q2	2005Q3
CPI--BASELINE SCENARIO (1982-84=1)	CPIBASEMA	2.036	2.061	2.065	2.088	2.105	2.116	2.150
CPI--OPTIMISTIC SCENARIO (1982-84=1)	CPIOPTMA	2.036	2.061	2.065	2.088	2.105	2.116	2.150
CPI--PESSIMISTIC SCENARIO (1982-84=1)	CPIPESSMA	2.036	2.061	2.065	2.088	2.105	2.116	2.150

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	2005Q4	2006Q1	2006Q2	2006Q3	2006Q4	2007Q1	2007Q2	2007Q3
CPI--BASELINE SCENARIO (1982-84=1)	2.171	2.188	2.215	2.235	2.223	2.235	2.261	2.276
CPI--OPTIMISTIC SCENARIO (1982-84=1)	2.171	2.188	2.215	2.235	2.223	2.235	2.261	2.276
CPI--PESSIMISTIC SCENARIO (1982-84=1)	2.171	2.188	2.215	2.235	2.223	2.235	2.261	2.276

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	2007Q4	2008Q1	2008Q2	2008Q3	2008Q4	2009Q1	2009Q2	2009Q3
CPI--BASELINE SCENARIO (1982-84=1)	2.303	2.322	2.363	2.404	2.352	2.346	2.351	2.371
CPI--OPTIMISTIC SCENARIO (1982-84=1)	2.303	2.322	2.363	2.404	2.352	2.346	2.351	2.371
CPI--PESSIMISTIC SCENARIO (1982-84=1)	2.303	2.322	2.363	2.404	2.352	2.346	2.351	2.371

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								FY12
	2009Q4	2010Q1	2010Q2	2010Q3	2010Q4	2011Q1	2011Q2	2011Q3
CPI--BASELINE SCENARIO (1982-84=1)	2.384	2.385	2.387	2.401	2.423	2.438	2.481	2.492
CPI--OPTIMISTIC SCENARIO (1982-84=1)	2.384	2.385	2.387	2.401	2.423	2.438	2.481	2.492
CPI--PESSIMISTIC SCENARIO (1982-84=1)	2.384	2.385	2.387	2.401	2.423	2.438	2.481	2.492

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	FY12	FY12	FY12	FY13	FY13	FY13	FY13	FY14
	2011Q4	2012Q1	2012Q2	2012Q3	2012Q4	2013Q1	2013Q2	2013Q3
CPI--BASELINE SCENARIO (1982-84=1)	2.498	2.520	2.524	2.533	2.550	2.561	2.558	2.575
CPI--OPTIMISTIC SCENARIO (1982-84=1)	2.498	2.520	2.524	2.533	2.550	2.561	2.558	2.575
CPI--PESSIMISTIC SCENARIO (1982-84=1)	2.498	2.520	2.524	2.533	2.550	2.561	2.558	2.575

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	FY14	FY14	FY14	FY15	FY15	FY15	FY15	FY16
	2013Q4	2014Q1	2014Q2	2014Q3	2014Q4	2015Q1	2015Q2	2015Q3
CPI--BASELINE SCENARIO (1982-84=1)	2.587	2.604	2.615	2.618	2.618	2.620	2.626	2.632
CPI--OPTIMISTIC SCENARIO (1982-84=1)	2.587	2.604	2.615	2.618	2.618	2.620	2.626	2.632
CPI--PESSIMISTIC SCENARIO (1982-84=1)	2.587	2.604	2.615	2.618	2.618	2.620	2.626	2.632

**Rate-to-rate CAF**

Base period: FY16Q3

**2016Q1**

2.623

Prospective rate period: 07/01/2016 - 6/30/2018

**2016Q3**

**2016Q4**

2.657

2.673

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	FY16	FY16	FY16	FY17	FY17	FY17	FY17	FY18
	2015Q4	2016Q1	2016Q2	2016Q3	2016Q4	2017Q1	2017Q2	2017Q3
<b>CPI--BASELINE SCENARIO (1982-84=1)</b>	2.625	2.626	2.642	2.669	2.690	2.701	2.723	2.746
<b>CPI--OPTIMISTIC SCENARIO (1982-84=1)</b>	2.624	2.623	2.634	2.657	2.673	2.683	2.698	2.717
<b>CPI--PESSIMISTIC SCENARIO (1982-84=1)</b>	2.627	2.630	2.648	2.677	2.701	2.716	2.742	2.770

						<u>Average</u>
						2.623
<b>2017Q1</b>	<b>2017Q2</b>	<b>2017Q3</b>	<b>2017Q4</b>	<b>2018Q1</b>	<b>2018Q2</b>	
2.683	2.698	2.717	2.726	2.742	2.753	2.706
						<b>CAF: 3.17%</b>

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	FY18	FY18	FY18	FY19	FY19	FY19	FY19	
	2017Q4	2018Q1	2018Q2	2018Q3	2018Q4	2019Q1	2019Q2	2019Q3
CPI--BASELINE SCENARIO (1982-84=1)	2.760	2.776	2.792	2.809	2.826	2.843	2.860	2.879
CPI--OPTIMISTIC SCENARIO (1982-84=1)	2.726	2.742	2.753	2.767	2.782	2.798	2.813	2.831
CPI--PESSIMISTIC SCENARIO (1982-84=1)	2.789	2.812	2.833	2.856	2.879	2.903	2.927	2.952



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	2019Q4	2020Q1	2020Q2	2020Q3	2020Q4	2021Q1	2021Q2	2021Q3
CPI--BASELINE SCENARIO (1982-84=1)	2.896	2.913	2.932	2.951	2.969	2.989	3.010	3.033
CPI--OPTIMISTIC SCENARIO (1982-84=1)	2.848	2.865	2.883	2.900	2.918	2.938	2.958	2.979
CPI--PESSIMISTIC SCENARIO (1982-84=1)	2.977	3.002	3.027	3.055	3.082	3.111	3.141	3.174

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	2021Q4	LABEL
CPI--BASELINE SCENARIO (1982-84=1)	3.054	
CPI--OPTIMISTIC SCENARIO (1982-84=1)	3.000	
CPI--PESSIMISTIC SCENARIO (1982-84=1)	3.205	

Competitive Integrated Employment Services (CIES) Rate Summary						Rate review: rates to be effective 7/1/16			
Description	Current Rates		Hourly Rate		CAF	Completed Component Rates		Hourly Rate	
	Level A Rate	Level B Rate	Level A Rate	Level B Rate		Level A Rate	Level B Rate	Level A Rate	Level B Rate
Intake, Evaluation and Assessment	\$374	\$802	\$16.20	\$36.04	3.17%	\$386	\$827	\$16.76	\$37.20
Job Focused Skill Development and Educational Activities	\$799	\$2,188	\$16.20	\$36.04	3.17%	\$825	\$2,258	\$16.76	\$37.20
Job Development and Placement	\$1,363	\$4,412	\$16.20	\$36.04	3.17%	\$1,406	\$4,552	\$16.76	\$37.20
Initial Placement Supports	\$494	\$1,576	\$16.20	\$36.04	3.17%	\$510	\$1,626	\$16.76	\$37.20
Ongoing and Interim Supports	none	none	none	\$36.04	3.17%	none	none	none	\$37.20



CIES Rate Development												
			Outcome(s) (presented data rounded for readability; calculations not rounded)									
Component Based Rate Setting Development			Level A				Level B				Source	
A	Number of non-specialized direct care FTE's for each provider program reported on survey.		4.21				3.83				survey data	
			Intake, evaluation, and assessment		Job-targeted educational & skills training activities		Job development and placement		Initial employment supports			
			Level A	Level B	Level A	Level B	Level A	Level B	Level A	Level B		
B	% of corresponding Purchasing Agency direct care FTE time to be allocated to each component from survey		13.3%	15.4%	35.0%	35.7%	35.9%	38.8%	12.3%	13.1%	survey data	
C	Number of clients starting a component reported on survey.		109	53	135	46	120	36	104	32		
D	FTE per client beginning each component per provider program	A * B / C	0.005	0.011	0.011	0.030	0.013	0.041	0.005	0.016		
E	% Completion factor from survey	% of clients that completed each component	87.2%	87.2%	86.7%	86.7%	58.8%	58.8%	63.6%	63.6%	survey data	
F	Average FTE from UFR	D / E	0.006	0.013	0.013	0.034	0.021	0.069	0.008	0.025		
G	Benchmark direct care salary from UFR	FY2007 UFR direct care salary (from current methodology) with a cost adjustment factor (CAF) of 5.32%.	\$30,148								UFR data	
H	Direct care per client rate	F x G	\$177	\$380	\$379	\$1,038	\$647	\$2,093	\$234	\$748		
I	Average direct care salary % of total program costs	Total reported direct care salary costs divided by total program costs	47.44%								survey data	
J	Total component based rate	H / I	\$374	\$802	\$799	\$2,188	\$1,363	\$4,412	\$494	\$1,576		
Hourly-Based Rate Setting Development			Level 1	Level 2								
K	Standard staffing level factor	Level 1 hourly based rate to be used where multiple clients are served concurrently during a session to reflect encounters of 1-to-2-plus staff-to-client ratios.	0.450	1.000	Note: Total hourly based Level 1 rate = Total hourly based Level 2 rate multiplied by the Standard staffing level A factor							
L	Productivity standard - billable hours per year	Total yearly hours (1,950) less unproductive hours (187.5) of: 2 wks vacation, 1 wk sick & personal, 10 holidays	1762.50									
M	Direct care hourly rate	G / L * K	\$7.69	\$17.11								
N	Total hourly based rate	M / I	\$16.21	\$36.05								
Hourly-Based Rates with 15 Minutes Increments			Hourly Rate	15 minutes Increments	Final Hourly Rate for Regulation (with 15 min. Increments)							
Level 1			\$16.21	\$4.05	\$16.20							
Level 2			\$36.05	\$9.01	\$36.04							
Direct Care Salary												
Current Salary	CAF	Current Salary w CAF										
\$28,625	5.32%	\$30,148										
Rate Methodology: Utilizes the original methodology and data adopted during the last review (effective July 1, 2009) and increases the direct care salary by a cost adjustment factor (CAF). The CAF is calculated by considering the last effective date (July 1, 2009) of the direct care salary and bringing it current and forward it to the next 2 year prospective rate review period (FY 15). The CAF of 5.32% increases the direct care salary from \$28,625 to \$30,148 and the direct care salary increase applies to all CIES components (Intake Evaluation and Assessment, Job Targeted Skills and Training, Job Development and Placement, Initial Employment Supports and the Hourly Rate).												

## CIES Productivity Standard

CIES Productivity Standard		CURRENT
		Explanation
Total Hours	1950	
Vacation	75	2 weeks
Sick & Personal	37.5	1 weeks
Holidays	75	10 days
Training		Days
Travel		Travel
Supervision		hrs/r wk, not counting wks not working
Admin		hrs/wk admin
Subtotal	187.50	
<b>Productivity Std</b>	<b>1762.50</b>	